

12 VOLT WET/DRY AUTO VACUUM

Model 66163

SET UP AND OPERATING INSTRUCTIONS



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**Read this material before using this product.
Failure to do so can result in serious injury.
SAVE THIS MANUAL.**

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For technical questions or replacement parts, please call 1-800-444-3353.

Revised Manual 10b

SAVE THIS MANUAL

Keep this manual for the safety warnings and precautions, assembly, operating, inspection, maintenance and cleaning procedures. Write the product's serial number in the back of the manual (or month and year of purchase if product has no number). Keep this manual and the receipt in a safe and dry place for future reference.

IMPORTANT SAFETY INFORMATION

In this manual, on the labeling, and all other information provided with this product:



This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.

DANGER

DANGER indicates a hazardous situation which, if not avoided, will result in death or serious injury.

WARNING

WARNING indicates a hazardous situation which, if not avoided, could result in death or serious injury.

CAUTION

CAUTION, used with the safety alert symbol, indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.

NOTICE

NOTICE is used to address practices not related to personal injury.

CAUTION

CAUTION, without the safety alert symbol, is used to address practices not related to personal injury.

General Safety Warnings



WARNING Read all safety warnings and instructions. Failure to follow the warnings and instructions may result in electric shock, fire and/or serious injury. **Save all warnings and instructions for future reference.**

1. **Work area safety**
 - a. **Keep work area clean and well lit.** Cluttered or dark areas invite accidents.
 - b. **Do not operate the Auto Vacuum in explosive atmospheres, such as in the presence of flammable liquids, gases or dust.** Power tools create sparks which may ignite the dust or fumes.
 - c. **Keep children and bystanders away while operating the Auto Vacuum.** Distractions can cause you to lose control.
2. **Electrical safety**
 - a. **The 12 Volt Power Plug (11) of this Auto Vacuum must match the vehicle cigarette lighter outlet. Never modify the Plug in any way.**
 - b. **Avoid body contact with grounded surfaces such as pipes, radiators, ranges and refrigerators.** There is

an increased risk of electric shock if your body is grounded.

- c. **Do not expose this Auto Vacuum to rain.** Water entering the electric components of this product will increase the risk of electric shock.
 - d. **Do not abuse the 12 Volt Power Cord. Never use the Cord for carrying, pulling or unplugging the Auto Vacuum. Keep the Cord away from heat, oil, sharp edges or moving parts.** Damaged or entangled cords increase the risk of electric shock.
3. **Personal safety**
 - a. **Stay alert, watch what you are doing and use common sense when operating the Auto Vacuum. Do not use a power tool while you are tired or under the influence of drugs, alcohol or medication.** A moment of inattention while operating power tools may result in serious personal injury.
 - b. **Use personal protective equipment. Always wear ANSI-approved safety goggles.** Safety equipment such as NIOSH-approved dust mask, non-skid safety shoes, hard hat, or hearing protection used for appropriate conditions will reduce personal injuries.
 - c. **Prevent unintentional starting. Ensure the Power Switch (5) is in the off-position before connecting to the vehicle's cigarette lighter outlet, picking up or carrying the tool.** Carrying power tools with your finger on the Power Switch or energizing power tools that have the Power Switch on invites accidents.
 - d. **Do not overreach. Keep proper footing and balance at all times.** This enables better control of the power tool in unexpected situations.
 - e. **Dress properly. Do not wear loose clothing or jewelry. Keep your hair, clothing and gloves away from moving parts.** Loose clothes, jewelry or long hair can be caught in moving parts.
 4. **Power tool use and care**
 - a. **Avoid damage to the Auto Vacuum. Do not connect this Auto Vacuum to an *unfused* circuit.** This product contains no internal fuse.
 - b. **Make sure any liquid vacuumed does not rise above the "MAX" mark on the Container (2).** Empty the Container often when vacuuming liquids.
 - a. **Do not force the Auto Vacuum. Use the correct power tool for your application.** The correct power tool will do the job better and safer at the rate for which it was designed.
 - b. **Do not use the Auto Vacuum if the Power Switch (5) does not turn it on and off.** Any power tool that cannot be controlled with the Power Switch is dangerous and must be repaired.
 - c. **Disconnect the 12 Volt Power Plug (11) from the vehicle's cigarette lighter/accessories outlet before making any adjustments, changing accessories, or storing the power tool.** Such preventive safety measures reduce the risk of starting the power tool accidentally.
 - d. **Store idle power tools out of the reach of children and do not al-**

low persons unfamiliar with the **Auto Vacuum** or these instructions to operate the power tool. Power tools are dangerous in the hands of untrained users.

- e. **Maintain Auto Vacuum. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the power tool's operation. If damaged, have the power tool repaired before use.** Many accidents are caused by poorly maintained power tools.
- f. **Use the Auto Vacuum and its accessories in accordance with these instructions, taking into account the working conditions and the work to be performed.** Use of the power tool for operations different from those intended could result in a hazardous situation.

5. Service

- a. **Have your Auto Vacuum serviced by a qualified repair person using only identical replacement parts.** This will ensure that the safety of the power tool is maintained.

Additional Safety Warnings

1. **To avoid accidental fires, do not vacuum anything that is burning or smoking such as cigarettes, matches, hot ashes, etc. Do not attempt to vacuum combustible or flammable liquids.**
2. **Maintain labels and nameplates on the Auto Vacuum.** These carry important safety information. If unreadable or missing, contact Harbor Freight Tools for a replacement.

3. **Avoid unintentional starting.** Prepare to begin work before turning on the Auto Vacuum.

4. **Do not leave the tool unattended when it is plugged into a vehicle's cigarette lighter accessories outlet.** Turn off the tool, and unplug it from its electrical outlet before leaving.

5.  **This product is not a toy. Keep it out of reach of children.**

6. **People with pacemakers should consult their physician(s) before use.** Electromagnetic fields in close proximity to heart pacemaker could cause pacemaker interference or pacemaker failure. In addition, people with pacemakers should:
 - Avoid operating alone.
 - Do not use with power switch locked on.
 - Properly maintain and inspect to avoid electrical shock.
 - Any power cord must be properly grounded. Ground Fault Circuit Interrupter (GFCI) should also be implemented – it prevents sustained electrical shock.

7. **The warnings, precautions, and instructions discussed in this instruction manual cannot cover all possible conditions and situations that may occur.** It must be understood by the operator that common sense and caution are factors which cannot be built into this product, but must be supplied by the operator.



SAVE THESE INSTRUCTIONS.

SPECIFICATIONS

Power Source	12 VDC
Plug Type	12 VDC Cigaretter Lighter Plug
Fuse Equipped	No. Must be connected to a fused 12 volt circuit.
Features	Wet & Dry Hand-Held Vacuum. High Power Motor for Efficient Cleaning. Detachable Container with Filter for Convenient Cleaning.
Accessories	Liquid Pick-Up Nozzle (Qty. 1) Small Crevice Nozzle (Qty. 1) Large Crevice Nozzle (Qty. 1)

UNPACKING

When unpacking, check to make sure that the item is intact and undamaged. If any parts are missing or broken, please call Harbor Freight Tools at the number shown on the cover of this manual as soon as possible.

OPERATING INSTRUCTIONS



Read the **ENTIRE IMPORTANT SAFETY INFORMATION** section at the beginning of this manual including all text under subheadings therein before set up or use of this product.



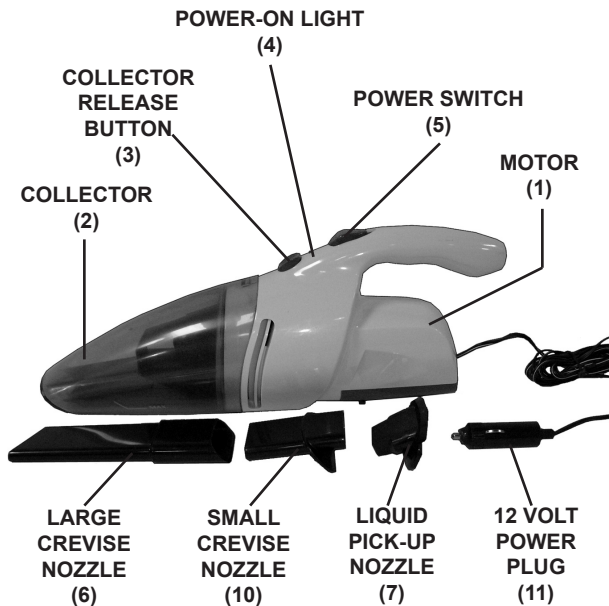
WARNING TO PREVENT SERIOUS INJURY

FROM ACCIDENTAL OPERATION:
Turn the Power Switch (5) of the Auto Vacuum to its “OFF” position and unplug the tool from the vehicle’s cigarette lighter outlet before assembling or making any adjustments to the tool.

Note: For additional information regarding the parts listed in the following pages, refer to the Assembly Diagram near the end of this manual.

1. To pick up *solids*, attach either the Long Nozzle (6) or the short Nozzle (10) to the Collector (2) as follows: a) To attach the sort Nozzle (1), push the short end of the Nozzle into the opening at the front end of the Collector, making sure that the deflector angle is in the same orientation as the tip of the Collector. Push the Nozzle in until snug. b) To attach the long Nozzle (6), slide it over the end of the short nozzle, again keeping in mind the orientation of the Nozzle opening with the angle of the Collector opening.
2. To pick up *liquids*, insert the Liquid Pick-Up Nozzle (7) into the opening at the end of the Collector (2). **IMPORTANT:** Make sure that the liquid vacuumed **does not** rise above the “MAX” mark on the Collector. (See Figure A.)
3. To power the Auto Vacuum, insert the tool’s 12 Volt Power Plug (11) into a vehicle’s 12 volt cigarette lighter/accessories outlet. **IMPORTANT:** In certain vehicles, you may have to switch the ignition to the *accessory* mode before the Vacuum will operate. (See Figure A.)
4. Press and hold the Power Switch (5) to run the Auto Vacuum. While running, the Power-On Light (4) will illuminate. (See Figure A.)

FIGURE A



5. Vacuum in any direction until the area is cleaned of dirt, debris, or liquid.
6. When finished, release the Power Switch (5) to turn off the Auto Vacuum. Then unplug the tool from the vehicle's cigarette lighter/accessories outlet.
(See Figure A.)
7. Before storing, thoroughly clean the Collector (2), Filter Support (8), Filter (9), and Impeller area of all dirt, debris, and liquid. To do so:
 - a. Press the Collector Release Button (3) to remove the Collector (2).
 - b. Remove the Filter (9) from the Filter Support (8).
 - c. Wash the Collector (2), Filter Support (8), and Filter (9) with clean, soapy water. Rinse the filter thoroughly. Then allow to dry.
 - d. Use a soft brush or compressed air to clean out the Impeller area.
 - e. Reassemble the Auto Vacuum and store it in a clean, dry, safe location out of reach of children and other

unauthorized persons.
(See Figure B.)

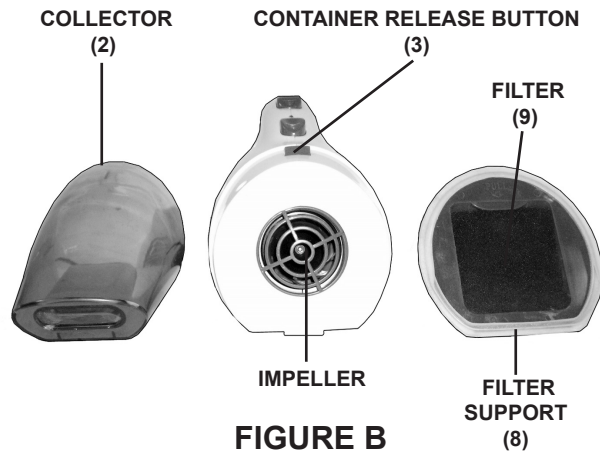


FIGURE B

MAINTENANCE AND SERVICING



Procedures not specifically explained in this manual must be performed only by a qualified technician.

WARNING

TO PREVENT SERIOUS INJURY

FROM ACCIDENTAL OPERATION:

Turn the Power Switch (5) of the Auto Vacuum to its "OFF" position and unplug the tool from the vehicle's cigarette lighter/accessories outlet before performing any inspection, maintenance, or cleaning procedures.

TO PREVENT SERIOUS INJURY FROM TOOL FAILURE:

Do not use damaged equipment. If abnormal noise or vibration occurs, have the problem corrected before further use.

Cleaning, Maintenance, and Lubrication

1. BEFORE EACH USE, inspect the general condition of the Auto Vacuum. Check for misalignment or binding of moving parts, cracked or broken parts, damaged electrical wiring, and any other condition that may affect its safe operation.
2. AFTER USE, clean the external surfaces of the tool with a clean cloth. Refer to previous instructions for cleaning the Container (2), Filter Support (8), Filter (9), and Impeller area.
3. **⚠WARNING!** If the 12 Volt Power Cord/Plug (11) of this Auto Vacuum is damaged, it must be replaced only by a qualified service technician.

PLEASE READ THE FOLLOWING CAREFULLY

THE MANUFACTURER AND/OR DISTRIBUTOR HAS PROVIDED THE PARTS LIST AND ASSEMBLY DIAGRAM IN THIS MANUAL AS A REFERENCE TOOL ONLY. NEITHER THE MANUFACTURER OR DISTRIBUTOR MAKES ANY REPRESENTATION OR WARRANTY OF ANY KIND TO THE BUYER THAT HE OR SHE IS QUALIFIED TO MAKE ANY REPAIRS TO THE PRODUCT, OR THAT HE OR SHE IS QUALIFIED TO REPLACE ANY PARTS OF THE PRODUCT. IN FACT, THE MANUFACTURER AND/OR DISTRIBUTOR EXPRESSLY STATES THAT ALL REPAIRS AND PARTS REPLACEMENTS SHOULD BE UNDERTAKEN BY CERTIFIED AND LICENSED TECHNICIANS, AND NOT BY THE BUYER. THE BUYER ASSUMES ALL RISK AND LIABILITY ARISING OUT OF HIS OR HER REPAIRS TO THE ORIGINAL PRODUCT OR REPLACEMENT PARTS THERETO, OR ARISING OUT OF HIS OR HER INSTALLATION OF REPLACEMENT PARTS THERETO.

TROUBLESHOOTING

Problem	Possible Cause	Possible Solution
Auto Vacuum does not turn on.	<ol style="list-style-type: none"> 1. No input power. 2. Vehicle's battery low. 3. Blown fuse. 	<ol style="list-style-type: none"> 1. Make sure 12 Volt Power Plug is properly connected to vehicle's 12 volt cigarette lighter outlet. 2. Make sure vehicle's battery is fully charged. 3. Replace the fuse.
Low or no suction.	<ol style="list-style-type: none"> 1. Clogged Container and/or Nozzle openings. 2. Container full. 3. Filter and/or Impeller area clogged. 	<ol style="list-style-type: none"> 1. Clean out Container and/or Nozzle openings. 2. Empty Container. 3. Clean out Filter and/or Impeller area.

Record Product's Serial Number Here: _____

Note: If product has no serial number, record month and year of purchase instead.

Note: Some parts are listed and shown for illustration purposes only, and are not available individually as replacement parts.

PARTS LIST & ASSEMBLY DIAGRAM

Part #	Description	Qty.	Part #	Description	Qty.
1	Motor	1	7	Liquid Pick-Up Nozzle	1
2	Collector	1	8	Filter Support	1
3	Container Release Button	1	9	Filter	1
4	Power-On Light	1	10	Small Crevice Nozzle	1
5	Power Switch	1	11	12 Volt Power Plug	1
6	Large Crevice Nozzle	1			

